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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/884,696	06/19/2001	Lisle W. George	481.06	4037	
5	7590 07/17/2002				
PETERS, VERNY, JONES & BIKSA LLP			EXAMINER		
SUITE 6 385 SHERMA	— —	PORTNER, VIRGINIA ALLEN			
PALO ALTO,	CA 94306		ART UNIT	PAPER NUMBER	
			1645	V	
			DATE MAILED: 07/17/2002	. O	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/884,696

Applicant(s)

George et al

Examiner

Portner

Art Unit 1645

	The MAILING DATE of this communication appears of	on the	cover she	et with (the correspondence address		
Period 1	for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the							
- If the p - If NO p - Failure - Any re	dete of this communication. beriod for reply specified above is less than thirty (30) days, a reply within the beriod for reply is specified above, the maximum statutory period will apply and to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	and will e ne applica	expire SIX (6) Nation to become	MONTHS from ABANDO	om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status							
1) 💢	Responsive to communication(s) filed on Jun 19, 2	001					
2a) 🗌	This action is FINAL . 2b) 💢 This action	ion is	non-final.				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposit	tion of Claims						
4) 💢	Claim(s) <u>1-33</u>				is/are pending in the application.		
4	a) Of the above, claim(s)				is/are withdrawn from consideration.		
5) 🗆	Claim(s)				is/are allowed.		
6) 🗆	Claim(s)				is/are rejected.		
7)□	Claim(s)				is/are objected to.		
8) 💢	Claims <u>1-33</u>		are :	subject	to restriction and/or election requirement.		
	tion Papers						
9) 🗆	The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are	a) 🗌	accepted	or b)[objected to by the Examiner.		
	Applicant may not request that any objection to the de						
11) 🗆	The proposed drawing correction filed on						
	If approved, corrected drawings are required in reply t	to this	Office acti	on.			
12)	The oath or declaration is objected to by the Exami	ner.					
Priority	under 35 U.S.C. §§ 119 and 120						
13) 🗆	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) [☐ All b)☐ Some* c)☐ None of:						
	1. Certified copies of the priority documents have	e bee	n received	l.			
	2. \square Certified copies of the priority documents have	e bee	n received	in App	lication No		
	3. Copies of the certified copies of the priority do application from the International Burea	au (PC	CT Rule 17	7.2(a)}.			
*S	ee the attached detailed Office action for a list of the	e certi	ified copie	s not re	ceived.		
14)	Acknowledgement is made of a claim for domestic						
a) L	a see a						
15)∐	Acknowledgement is made of a claim for domestic	priori	ty under 3	5 U.S.C	C. §§ 120 and/or 121.		
Attachm							
	tice of References Cited (PTO-892)	_			-413) Paper No(s)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)							
3) ∐ Inf	ormetion Disclosure Statement(s) (PTO-1449) Paper No(s).	6) 📙	Other:				

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DETAILED ACTION

Claims 1-33 are pending.

Election/Restriction

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- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-7, 12-15, 23-25, drawn to a peptides, polypeptides, or a cytotoxin protein defined by SEQ ID Nos 1 or 2, and specific peptides encoded by SEQ ID No 6 or 13, classified in class 530, subclass 350.
 - II. Claims 8-11, drawn to DNA of SEQ ID Nos 1,2, or fragments of SEQ ID NO 1or 2, specifically SEQ ID NO 6 or 13, classified in class 536, subclass 23.1.
 - III. Claims 16-18, drawn to method of preventing infection, classified in class 424, subclass 190.1.
 - IV. Claims 19-22, drawn to a method of diagnosing infection, classified in class 435, subclass 7.1.
 - V. Claim 26 and 27 drawn to DNA of SEQ ID No 30, 18 classified in class 536, subclass 23.1.
 - VI. Claim 26 and 28 drawn to DNA of SEQ ID No 31, 32 classified in class 536, subclass 23.1.
 - VII. Claim 26 and 29 drawn to DNA of SEQ ID No 36, 37, classified in class 536, subclass 23.1.

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VIII. Claims 30 and 31 drawn to an amino acid sequence of SEQ ID No 18 classified

in class 530, subclass 350.

IX. Claim 30 and 32 drawn to an amino acid sequence of SEQ ID No 32 classified

in class 530, subclass 350.

X. Claim 30 drawn to an amino acid sequence of SEQ ID No 37, classified in class

530, subclass 350.

XI. Claim 33 drawn to an amino acid sequence of SEQ ID No 38, classified in class

530, subclass 350.

2. Inventions II and I are related as apparatus and product made. The inventions in this

relationship are distinct if either or both of the following can be shown: (1) that the apparatus as

claimed is not an obvious apparatus for making the product and the apparatus can be used for

making a different product or (2) that the product as claimed can be made by another and

materially different apparatus (MPEP § 806.05(g)). In this case, that the product as claimed can

be made by another and materially different apparatus, specifically biochemical synthetic synthesis,

or purification from the bacterial natural source.

3. Inventions I and VIII, IX, X, or IX are related as subcombinations disclosed as usable

together in a single combination. The subcombinations are distinct from each other if they are

shown to be separately usable. In the instant case, invention each protein evidences a different

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sequence based upon SEQ ID NO, has a different chemical structure (amino acid structure) function which results in a different biological effect has separate utility such as immunogens, diagnostics, reagents for the purification of a different population of antibodies and for formulation of molecular image polymers specific to the protein. See MPEP § 806.05(d).

- Inventions II and V, VI or VII are related as subcombinations disclosed as usable together 4. in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention Groups II, V, VI, and VII all differ in the number of nucleotides presented by each SEQ ID NO and encode proteins or polypeptides of differing sizes, structures and biological effects, each has separate utility such as for stimulating different populations of antibodies, and for detecting different genera, species and strains of pathogen. See MPEP § 806.05(d).
- 5. Inventions I and III or IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed can be used in a materially different

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process of using that product, wherein the product can be used to immunize an animal, detect infection, produce antibodies for use in purification of the cytotoxin, and formulation of molecular image polymers.

6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the 8. inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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10. WO O1/161172 is cited to show the recombinant production of Moraxella bovis cytotoxin.

11. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Ginny Portner whose telephone number is (703)308-7543. The examiner

can normally be reached on Monday through Friday from 7:30 AM to 5:00 PM except for the first

Friday of each two week period.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Lynette Smith, can be reached on (703) 308-3909. The fax phone number for this group is

(703) 308-4242.

The Group and/or Art Unit location of your application in the PTO will be Group Art

Unit 1645. To aid in correlating any papers for this application, all further correspondence

regarding this application should be directed to this Art Unit.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone number is (703) 308-0196.

Vgp

July 10, 2002

MARK NAVARRO PRIMARY EXAMINER